Date: Sun, 31 Jul 94 04:30:29 PDT

From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>

Errors-To: Ham-Space-Errors@UCSD.Edu

Reply-To: Ham-Space@UCSD.Edu

Precedence: Bulk

Subject: Ham-Space Digest V94 #210

To: Ham-Space

Ham-Space Digest Sun, 31 Jul 94 Volume 94 : Issue 210

Today's Topics:

orbs\$210.micro.amsat orbs\$210.misc.amsat orbs\$210.oscar.amsat

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Problems you can't solve otherwise to brian@ucsd.edu.

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We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 29 Jul 1994 08:59:00 MDT

From: ihnp4.ucsd.edu!news.acns.nwu.edu!math.ohio-state.edu!howland.reston.ans.net!

gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!ve6mgs!

usenet@network.ucsd.edu

Subject: orbs\$210.micro.amsat

To: ham-space@ucsd.edu

SB KEPS @ AMSAT \$ORBS-210.D Orbital Elements 210.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS FROM WA5QGD FORT WORTH, TX July 29, 1994

BID: \$0RBS-210.D

TO ALL RADIO AMATEURS BT

Satellite: UO-14

Catalog number: 20437

Epoch time: 94206.22284695

Element set: 13 Inclination: 98.5894 deg RA of node: 290.4825 deg

Eccentricity: 0.0012008

Arg of perigee: 78.9012 deg
Mean anomaly: 281.3516 deg
Mean motion: 14.29850235 rev/day
Decay rate: -6.0e-08 rev/day^2

Epoch rev: 23502

Checksum: 291

Satellite: A0-16 Catalog number: 20439

Epoch time: 94206.20702088

Element set: 811
Inclination: 98.5977 deg

RA of node: 291.7399 deg

Eccentricity: 0.0012239

Arg of perigee: 79.4923 deg
Mean anomaly: 280.7641 deg
Mean motion: 14.29904338 rev/day
Decay rate: 3.0e-08 rev/day^2

Epoch rev: 23503

Checksum: 318

Satellite: DO-17

Catalog number: 20440

Epoch time: 94206.22761656

Element set: 812 Inclination: 98.5991 deg

RA of node: 292.0970 deg

Eccentricity: 0.0012389

Arg of perigee: 78.8466 deg
Mean anomaly: 281.4111 deg
Mean motion: 14.30043974 rev/day
Decay rate: -4.0e-08 rev/day^2

Epoch rev: 23505

Checksum: 302

Satellite: WO-18 Catalog number: 20441

Epoch time: 94205.78381851

Element set: 814
Inclination: 98.5990 deg

RA of node: 291.6570 deg

Eccentricity: 0.0012956

Arg of perigee: 80.7533 deg
Mean anomaly: 279.5114 deg
Mean motion: 14.30018047 rev/day
Decay rate: -4.0e-08 rev/day^2

Epoch rev: 23499

Checksum: 314

Satellite: LO-19

Catalog number: 20442

Epoch time: 94206.24921416

Element set: 810 Inclination: 98.5996 deg

RA of node: 292.3827 deg

Eccentricity: 0.0013298

Arg of perigee: 79.1581 deg
Mean anomaly: 281.1094 deg
Mean motion: 14.30114763 rev/day
Decay rate: 1.0e-08 rev/day^2

Epoch rev: 23507

Checksum: 299

Satellite: UO-22 Catalog number: 21575

Epoch time: 94205.73789110

Element set: 515
Inclination: 98.4330 deg

RA of node: 279.4738 deg

Eccentricity: 0.0007454

Arg of perigee: 171.9232 deg
Mean anomaly: 188.2073 deg
Mean motion: 14.36924859 rev/day
Decay rate: 1.8e-07 rev/day^2

Epoch rev: 15847

Checksum: 328

Satellite: KO-23 Catalog number: 22077

Epoch time: 94206.41547975

Element set: 410 Inclination: 66.0810 deg

RA of node: 199.9404 deg

Eccentricity: 0.0015234

Arg of perigee: 277.3412 deg
Mean anomaly: 82.5876 deg
Mean motion: 12.86286814 rev/day
Decay rate: -3.7e-07 rev/day^2

Epoch rev: 9170

Checksum: 310

Satellite: A0-27

Catalog number: 22825

Epoch time: 94206.22287297

Element set: 308
Inclination: 98.6518 deg

RA of node: 281.6465 deg

Eccentricity: 0.0009366

Arg of perigee: 94.4271 deg
Mean anomaly: 265.7975 deg
Mean motion: 14.27629859 rev/day
Decay rate: -1.4e-07 rev/day^2

Epoch rev: 4311

Checksum: 339

Satellite: IO-26 Catalog number: 22826

Epoch time: 94206.20110340

Element set: 308
Inclination: 98.6520 deg

RA of node: 281.6684 deg

Eccentricity: 0.0010136

Arg of perigee: 97.7120 deg
Mean anomaly: 262.5225 deg
Mean motion: 14.27734369 rev/day
Decay rate: -5.0e-08 rev/day^2

Epoch rev: 4311

Checksum: 270

Satellite: KO-25 Catalog number: 22830

Epoch time: 94206.20302620

Element set: 313
Inclination: 98.5527 deg

RA of node: 278.5145 deg

Eccentricity: 0.0012526

Arg of perigee: 66.4100 deg
Mean anomaly: 293.8394 deg
Mean motion: 14.28060612 rev/day
Decay rate: -2.1e-07 rev/day^2

Epoch rev: 4312

Checksum: 259

/EX

Date: Fri, 29 Jul 1994 09:05:00 MDT

From: ihnp4.ucsd.edu!news.acns.nwu.edu!math.ohio-state.edu!howland.reston.ans.net!

europa.eng.gtefsd.com!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!ve6mgs!

usenet@network.ucsd.edu

Subject: orbs\$210.misc.amsat

To: ham-space@ucsd.edu

SB KEPS @ AMSAT \$ORBS-210.M Orbital Elements 210.MISC

HR AMSAT ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES

FROM WA5QGD FORT WORTH, TX July 29, 1994

BID: \$ORBS-210.M

TO ALL RADIO AMATEURS BT

Satellite: POSAT

Catalog number: 22829

Epoch time: 94206.20886141

Element set: 301
Inclination: 98.6465 deg

RA of node: 281.7033 deg

Eccentricity: 0.0011077

Arg of perigee: 84.7659 deg
Mean anomaly: 275.4787 deg
Mean motion: 14.28034406 rev/day
Decay rate: 1.2e-07 rev/day^2

Epoch rev: 4312

Checksum: 290

Satellite: MIR

Catalog number: 16609

Epoch time: 94208.19718392

Element set: 690 Inclination: 51.6474 deg

RA of node: 346.2470 deg

Eccentricity: 0.0001596

Arg of perigee: 176.9266 deg
Mean anomaly: 183.1737 deg
Mean motion: 15.56672881 rev/day
Decay rate: 1.859e-05 rev/day^2

Epoch rev: 48225

Checksum: 342

Satellite: HUBBLE Catalog number: 20580

Epoch time: 94208.52592579

Element set: 511
Inclination: 28.4706 deg

RA of node: 336.8557 deg

Eccentricity: 0.0006320

Arg of perigee: 147.8719 deg
Mean anomaly: 212.2252 deg
Mean motion: 14.90646736 rev/day

Decay rate: 3.63e-06 rev/day^2

Epoch rev: 3541

Checksum: 297

Satellite: GRO

Catalog number: 21225

Epoch time: 94208.03852033

Element set: 120 Inclination: 28.4634 deg

RA of node: 315.4524 deg

Eccentricity: 0.0003172

Arg of perigee: 303.2211 deg
Mean anomaly: 56.8019 deg
Mean motion: 15.41089825 rev/day
Decay rate: 1.628e-05 rev/day^2

Epoch rev: 6309

Checksum: 253

Satellite: UARS

Catalog number: 21701

Epoch time: 94208.52684492

Element set: 560 Inclination: 56.9859 deg

RA of node: 357.4100 deg

Eccentricity: 0.0005682

Arg of perigee: 108.4118 deg
Mean anomaly: 251.7532 deg
Mean motion: 14.96553003 rev/day
Decay rate: 2.576e-05 rev/day^2

Epoch rev: 15697

Checksum: 308

/EX

Date: Fri, 29 Jul 1994 08:57:00 MDT

From: ihnp4.ucsd.edu!news.acns.nwu.edu!math.ohio-state.edu!howland.reston.ans.net!

gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!ve6mgs!

usenet@network.ucsd.edu

Subject: orbs\$210.oscar.amsat

To: ham-space@ucsd.edu

SB KEPS @ AMSAT \$0RBS-210.0 Orbital Elements 210.0SCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES FROM WA5QGD FORT WORTH,TX July 29, 1994

BID: \$0RBS-210.0

TO ALL RADIO AMATEURS BT

Satellite: A0-10

Catalog number: 14129

Epoch time: 94195.81899517

Element set: 290 Inclination: 27.0497 deg

RA of node: 317.9184 deg

Eccentricity: 0.6025942

Arg of perigee: 194.3808 deg
Mean anomaly: 135.3303 deg
Mean motion: 2.05882029 rev/day
Decay rate: -2.39e-06 rev/day^2

Epoch rev: 8335

Checksum: 326

Satellite: UO-11 Catalog number: 14781

Epoch time: 94206.57201705

Element set: 711
Inclination: 97.7853 deg

RA of node: 219.4981 deg

Eccentricity: 0.0012287

Arg of perigee: 142.1150 deg
Mean anomaly: 218.0921 deg
Mean motion: 14.69232874 rev/day
Decay rate: 1.26e-06 rev/day^2

Epoch rev: 55594

Checksum: 303

Satellite: RS-10/11 Catalog number: 18129

Epoch time: 94205.76394677

Element set: 929
Inclination: 82.9269 deg

RA of node: 301.0678 deg

Eccentricity: 0.0010302

Arg of perigee: 284.6472 deg
Mean anomaly: 75.3539 deg
Mean motion: 13.72339428 rev/day
Decay rate: 2.1e-07 rev/day^2

Epoch rev: 35506

Checksum: 320

Satellite: AO-13 Catalog number: 19216

Epoch time: 94205.91938835

Element set: 935 Inclination: 57.7565 deg

RA of node: 240.1864 deg

Eccentricity: 0.7222231

Arg of perigee: 346.4624 deg
Mean anomaly: 1.6687 deg
Mean motion: 2.09718427 rev/day
Decay rate: 2.74e-06 rev/day^2

Epoch rev: 4680

Checksum: 323

Satellite: F0-20 Catalog number: 20480

Epoch time: 94206.26040988

Element set: 708
Inclination: 99.0420 deg

RA of node: 350.8957 deg

Eccentricity: 0.0539824

Arg of perigee: 253.2264 deg
Mean anomaly: 100.8961 deg
Mean motion: 12.83226193 rev/day
Decay rate: -5.1e-07 rev/day^2

Epoch rev: 20901

Checksum: 297

Satellite: A0-21 Catalog number: 21087

Epoch time: 94208.21479316

Element set: 493 Inclination: 82.9441 deg

RA of node: 113.0988 deg

Eccentricity: 0.0035418

Arg of perigee: 335.1148 deg
Mean anomaly: 24.8298 deg
Mean motion: 13.74542430 rev/day
Decay rate: 9.3e-07 rev/day^2

Epoch rev: 17508

Checksum: 307

Satellite: RS-12/13 Catalog number: 21089

Epoch time: 94205.88513475

Element set: 711
Inclination: 82.9215 deg

RA of node: 343.4852 deg

Eccentricity: 0.0030108

Arg of perigee: 6.5069 deg Mean anomaly: 353.6469 deg Mean motion: 13.74044138 rev/day Decay rate: 4.2e-07 rev/day^2

Epoch rev: 17382

Checksum: 300

Satellite: ARSENE Catalog number: 22654

Epoch time: 94205.08601395

Element set: 267
Inclination: 1.9520 deg

RA of node: 97.7392 deg

Eccentricity: 0.2917162

Arg of perigee: 186.8922 deg
Mean anomaly: 167.2050 deg
Mean motion: 1.42201946 rev/day
Decay rate: -1.42e-06 rev/day^2

Epoch rev: 172

Checksum: 281

/EX

End of Ham-Space Digest V94 #210 ***********